

== WPI =====

TI - Detecting human type hepatitis B virus - using pair of nucleotide primers to amplify DNA region

AB - J03043100 A method of detecting human type B hepatitis virus(HBV) comprises amplifying a given DNA region by using a pair of oligonucleotide primers. A kit for the detection of HBV comprising the primer pair for amplifying the given DNA region and a probe for detecting the amplified DNA is also claimed.

- The primer pair for amplifying the given DNA region in the method is pref. primer pair of formula (II).

- There are four subtypes, adw, adr, ayw and ayr, of HBV in S region, and they can be simultaneously and simply detected by the kit. An amplification region substantially common to the four subtypes, primer DNA sequence optimum for PCR method and a probe sequence capable of detecting effectively the DNA region amplified were found by the inventors. An example of the probe DNA is 5'-TCCTCTTCATCCTGCTGCTATGCCTCATCT-3' (III). By using the primer pair and the probe, HBV DNA of 10^{power-6} pg. can be detected. The detection of HBV DNA after the amplification can be carried out by e.g. agarose gel electrophoretic method, spot method, etc.. Reagents used for the kit may be the form of soln. or freeze-dried one.

- USE/ADVANTAGE - The region (I) effective for the high sensitivity detection of DNA of HBV by the PCR method can be made clear, and a method and a kit for the high sensitivity detection of HBV can be offered. (7pp Dwg.No.0/0)

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